

1. Product and Company Identification

Material name CH146A

Use of the preparation Inkjet printing.

Version # 01

Revision date 02-28-2009 CAS # Mixture

Synonym(s) ColorSpan 0900992-301

Company identification Hewlett-Packard Company 3000 Hanover Street

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United States

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Date prepared Feb 28, 2009 MSDS number 341197

2. Hazards Identification

Emergency overview Harmful by inhalation and in contact with skin. Irritating to eyes and skin.

Allergic reactions are possible.

Acute health effects

Skin contact Contact causes skin irritation. Avoid contact with the skin.

Eye contact Causes eye irritation. Avoid contact with eyes.

Ingestion May be harmful if swallowed.

Potential health effects

Routes of exposure Potential routes of exposure under normal use conditions are skin, eye contact and inhalation.

3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight	
2-butoxyethylacetate	112-07-2	60-100	
2-methoxy-1-methylethylacetate	108-65-6	5-10	
Cyclohexanone	108-94-1	5-10	
Acetic Acid, Vinyl Ester, Polymer With Chloroethene	9003-22-9	1-2.5	

4. First Aid Measures

First aid procedures

Eye contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also

under the eyelids, for at least 15 minutes. Get medical attention immediately.

Skin contact In case of contact, immediately remove contaminated clothing and flush skin with copious

amounts of water. Get medical attention. Wash clothing separately before reuse.

In case of accident by inhalation: remove casualty to fresh air and keep at rest. If not

breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention

immediately.

Material nameCH146AMSDS USCreation dateOct 30, 2008Version number 11 / 6



Ingestion Rinse mouth out with water. Give several glasses of water. Never give anything by mouth to

an unconscious person. Do not induce vomiting.

Get medical attention immediately.

5. Fire Fighting Measures

Flash point and method 161.6 °F (72 °C) Closed Cup

Extinguishing media

Suitable extinguishing Dry chemical, CO2, sand, earth, water spray or regular foam.

media

Protection of firefighters

Protective equipment and precautions for firefighters

t and Firefighters should wear full protective clothing including self contained breathing apparatus.

Cool containers with flooding quantities of water until well after fire is out.

Avoid runoff into storm sewers and ditches which lead to waterways.

6. Accidental Release Measures

Personal precautions Avoid inhalation of vapors or mists. Avoid contact with skin.

Do not touch or walk through spilled material.

Wear appropriate protective equipment and clothing during clean-up.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste

container. Clean up in accordance with all applicable regulations. Ventilate the contaminated area. Eliminate ignition sources including sources of electrical, static or frictional sparks.

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product.

Use personal protective equipment as required. Use only with adequate ventilation. When

using, do not eat, drink or smoke.

Storage Keep tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Keep

away from heat, sparks and flame. Keep away from oxidizers.

Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	l ype	Value
2-butoxyethylacetate (112-07-2)	TWA	20 ppm
Cyclohexanone (108-94-1)	STEL	50 ppm
	TWA	20 ppm

U.S. - OSHA

Components	Туре	Value	
Cyclohexanone (108-94-1)	PEL	200 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		25 ppm	

Personal protective equipment

Eye / face protection Wear safety glasses; chemical goggles (if splashing is possible). Provide an emergency eye

wash fountain and quick drench shower in the immediate work area.

Skin protection Wear appropriate chemical resistant clothing.

Wear appropriate chemical resistant gloves.

Respiratory protection Use personal protective equipment as required.

Provide adequate ventilation.

Material nameCH146AMSDS USCreation dateOct 30, 2008Version number 12 / 6



General hygeine considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes and clothing.

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after

handling the product.

Launder contaminated clothing before reuse.

9. Physical & Chemical Properties

Color Cyan

Odor fruity solvent.
Odor threshold Not available.
Physical state Liquid.

Form Liquid. pH Not available.

Melting point
Not available.
Freezing point
Not available.

 Boiling point
 284 - 392 °F (140 - 200 °C)

 Flash point
 161.6 °F (72 °C) Closed Cup

Evaporation rate0.05 - 0.5 BuAcFlammabilityNot available.Flammability limits in air,Not available.

upper, % by volume Flammability limits in air,

lower, % by volume

Not available.

Vapor pressure Not available.

Vapor density > 1

Specific gravity 0.95 - 0.99 (@25 C)

Relative density Not available.

Solubility (water) 0.5 g/g

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.VOC900 g/LViscosity5 - 15 cP

10. Chemical Stability & Reactivity Information

Chemical stability Stable under normal storage conditions.

Conditions to avoid Avoid high temperatures.

Incompatible materialsThis product may react with strong oxidizing agents.

Reacts with air to form peroxides.

Hazardous decomposition

products

peroxides.

11. Toxicological Information

Sensitization

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (108-94-1)

Can be absorbed through the skin.

Local effects Harmful by inhalation and in contact with skin. Contact with skin and eyes may result in

irritation. Repeated or prolonged inhalation may cause toxic effects. Inhalation of high vapour

concentrations can cause CNS-depression and narcosis.

Material nameCH146AMSDS USCreation dateOct 30, 2008Version number 13 / 6



Carcinogenicity

IARC Monographs on Occupational Exposures to Chemical Agents: Evidence of carcinogenicity in humans

Acetic Acid, Vinyl Ester, Polymer With Chloroethene No data.

(9003-22-9)

No data. Cyclohexanone (108-94-1)

US ACGIH Threshold Limit Values: A3 carcinogen

2-butoxyethylacetate (112-07-2) Group A3 Confirmed animal carcinogen with unknown relevance to humans. Cyclohexanone (108-94-1) Group A3 Confirmed animal carcinogen with unknown relevance to humans.

Symptoms and target organs Major effects of exposure: Skin disorders, Allergic reactions.

Target Organs (NIOSH)

2-butoxyethylacetate (112-07-2) Blood

2-butoxyethylacetate (112-07-2) Central Nervous System

2-butoxyethylacetate (112-07-2) Eyes

2-butoxyethylacetate (112-07-2) Hemato system Kidneys 2-butoxyethylacetate (112-07-2) 2-butoxyethylacetate (112-07-2) Liver

2-butoxyethylacetate (112-07-2) Lymphoid system 2-butoxyethylacetate (112-07-2) Respiratory system

2-butoxyethylacetate (112-07-2)

Cyclohexanone (108-94-1) Central Nervous System

Cyclohexanone (108-94-1) Eyes Cyclohexanone (108-94-1) Kidneys Cyclohexanone (108-94-1) Liver

Cyclohexanone (108-94-1) Respiratory system

Cyclohexanone (108-94-1) Skin

12. Ecological Information

Ecotoxicity No information on ecology is available. **Aquatic toxicity** No data available for this product.

Persistence and degradability Not available.

13. Disposal Considerations

Waste codes

US RCRA Hazardous Waste U List: Reference

Cyclohexanone (108-94-1)

Disposal instructions Dispose of in compliance with federal, state, and local regulations. Do not allow this material

to drain into sewers/water supplies.

14. Transport Information

IATA

Not regulated as dangerous goods.

General not regulated

15. Regulatory Information

US federal regulations

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

1.0 % N230 2-butoxyethylacetate (112-07-2)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

2-butoxyethylacetate (112-07-2) N230 Listed.

CERCLA (Superfund) reportable quantity

None

Material name CH146A MSDS US Creation date Oct 30, 2008 4/6

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous

Yes

chemical

State regulations

US - New Jersey Community RTK (EHS Survey): Listed substance
2-butoxyethylacetate (112-07-2)

Substance no. 3138
US - New Jersey Community RTK (EHS Survey): Reportable threshold

2-butoxyethylacetate (112-07-2) 500 LBS
US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-butoxyethylacetate (112-07-2) Listed. Cyclohexanone (108-94-1) Listed.

16. Other Information

HMIS® ratings Health: 2

Flammability: 2 Physical hazard: 0 Personal protection: B

NFPA ratings Health: 2

Flammability: 2 Instability: 0

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Revision 1

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Section 1 above and may not meet regulatory requirements in other countries.

Material name CH146A MSDS US

Creation date Oct 30, 2008 Version number 1 5 / 6



Explanation of abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

CFR Code of Federal Regulations

COC Cleveland Open Cup

DOT Department of Transportation

EPCRA Emergency Planning and Community Right-to-Know Act (aka SARA)

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

RCRA Resource Conservation and Recovery Act

REC Recommended

REL Recommended Exposure Limit

SARA Superfund Amendments and Reauthorization Act of 1986

STEL Short-Term Exposure Limit

TCLP Toxicity Characteristics Leaching Procedure

TLV Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

Manufacturer information Hewlett-Packard

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Material nameCH146AMSDS USCreation dateOct 30, 2008Version number 16 / 6